

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)  
BOARD AND CODE ADMINISTRATION DIVISION  
**NOTICE OF ACCEPTANCE (NOA)**

MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION  
11805 SW 26 Street, Room 208  
Miami, Florida 33175-2474  
T (786) 315-2590 F (786) 315-2599  
[www.miamidade.gov/economy](http://www.miamidade.gov/economy)

**CGI Windows & Doors, Inc.**  
10100 N. W. 25<sup>th</sup> Street  
Miami, FL 33172

**SCOPE:**

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER -Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

**DESCRIPTION: Series "450" Inswing Opaque(Alumclad Composite Panels) Doors w/wo Sidelites - Impact**

**APPROVAL DOCUMENT:** Drawing No. **W12-23**, titled "Series 450 Inswing Doors & Sidelites", sheets 1, 1.1, 1.2, 2, 2.1, 2.2, 3, 4, 5, 6, 7 and 7.1 of 7, prepared by manufacturer, dated JUN 29, 2012, signed and sealed by Javad Ahmad, P.E., bearing the Miami-Dade County Product Control approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Section.

**MISSILE IMPACT RATING: Large and Small Missile Impact**

**Limitations:**

1. See Design Pressure ratings in sheets 1.1, 5, 6 and 7 for unit sizes Vs lock options, mullion type, sidelites, glass types and anchors.
2. For mulled units lower design pressure of doors or mullion shall control for entire assembly.
3. Exterior Design Pressure= +50.0 PSF w/ threshold (sill type S-I). Sills (threshold) types SS-1 & SS-2 are not rated for water infiltration. See thresholds (sills) limitations notes, in sheet 6.
4. Narrow stile sidelites are limited to 18" or less.

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and series and following statement: "Miami-Dade County Product Control Approved", noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA consists of this page 1 and evidence pages E-1 & E-2, as well as approval document mentioned above. The submitted documentation was reviewed by **Ishaq I. Chanda, P.E.**



NOA No. 12-0706.01  
Expiration Date: October 25, 2017  
Approval Date: October 25, 2012  
Page 1

10/16/12

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No. **W12-23**, titled "Series 450 Inswing Doors & Sidelites", sheets 1, 1.1, 1.2, 2, 2.1, 2.2, 3, 4, 5, 6, 7 and 7.1 of 7, prepared by manufacturer, dated JUN 29, 2012, signed and sealed by Javad Ahmad, P.E.

**B. TESTS**

1. Test reports on:
  - 1) Air Infiltration Test, per FBC, TAS 202-94
  - 2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
  - 3) Water Resistance Test, per FBC, TAS 202-94(+50.0 PSF, sill S-I only)
  - 4) Large Missile Impact Test per FBC, TAS 201-94
  - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
  - 6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94

Along with manufacturer's parts and section drawing marked-up drawings of aluminum In swing / Outswing door w/wo sidelites, by Hurricane Testing Laboratory, Inc., Test Report No. **HTL-0080-0304-11** dated 11/28/2011 and **HTL-0080-0902-11**, signed and sealed by Vinu J. Abraham, P.E.

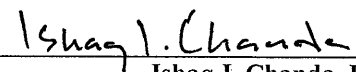
Note: This test report has been revised by addendum letters, issued by Architectural Testing (Former Hurricane Testing Lab), dated 01/20/12 and 04/03/12, both signed and sealed by Vinu J. Abraham, P.E.

Along with manufacturer's parts and section drawing marked-up drawings of double aluminum outswing doors, issued by Architectural Testing, Test Report No(s) **B-5234.02-450-18** dated 12/19/2011, signed and sealed by Vinu J. Abraham, P.E.

2. Test reports on:
  - 1) Air Infiltration Test, per FBC, TAS 202-94
  - 2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
  - 3) Water Resistance Test, per FBC, TAS 202-94
  - 4) Large Missile Impact Test per FBC, TAS 201-94
  - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
  - 6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94.

Along with manufacturer's parts and section drawing marked-up drawings of aluminum In/out swing door w/sidelites, by Hurricane Testing Laboratory, Inc., Test Report No. **HTL-97055 (0080-912-97)** dated 09/23/97 thru 02/27/98 for specimen #1, 2, 3, 4 tested per PA202-94, specimen #4, 5A, 5B, 5C tested per PA201-94 & PA203-94, signed and sealed by Timothy S. Marshall, P.E.

Along with manufacturer's parts and section drawing marked-up drawings of aluminum out swing door w/sidelites, by Hurricane Testing Laboratory, Inc., Test Report No. **HTL-01071 (0080-0402-02)** dated 04/01/2002 tested per PA201-94 & PA203-94, signed and sealed by Vinu J. Abraham, P.E. (submitted in file # **09-0723.04**). Original tests conducted per SFBC, PA 201, 202 & 203-94 now known as FBC, TAS 201, 202 & 203-94.



Ishaq I. Chanda, P.E.

Product Control Examiner

NOA No 12-0706.01

Expiration Date: October 25, 2017

Approval Date: October 25, 2012

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**C. CALCULATIONS**

1. Anchor verification calculations and structural analysis, complying with FBC-2010, prepared by Al Farooq Corporation, dated 09/09/11 and last revised on APR 24, 2012, signed and sealed by Javad Ahmad, P.E. (submitted under Inswing glazed doors NOA# 11-1025.03).

**D. QUALITY ASSURANCE**

1. Miami Dade Department of Permitting, Environment, and Regulatory Affairs (PERA).

**E. MATERIAL CERTIFICATIONS**

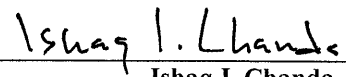
1. None

**F. STATEMENTS**

1. Statement letter of conformance to FBC 2010 and letter of no financial interest, prepared by Al Farooq Corporation, dated 10/16/12, signed and sealed by Javad Ahmad, P.E.
2. Lab compliance and addendum letters, as part of the above referenced test reports.

**G. OTHER**

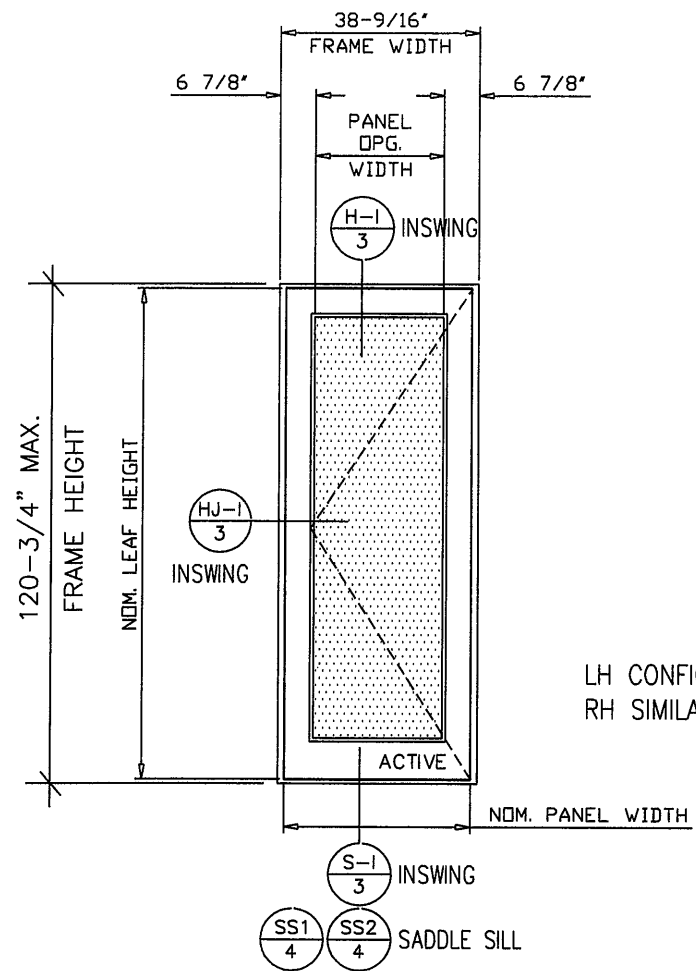
1. Hardware cut sheets verified and marked-up by the Architectural Testing (former Hurricane Testing lab).
2. Reference Inswing Glazed Doors w/wo sidelites NOA # 11-1025.03.
3. Test proposal # **10-0940**, dated 11/17/10 approved by BNC.



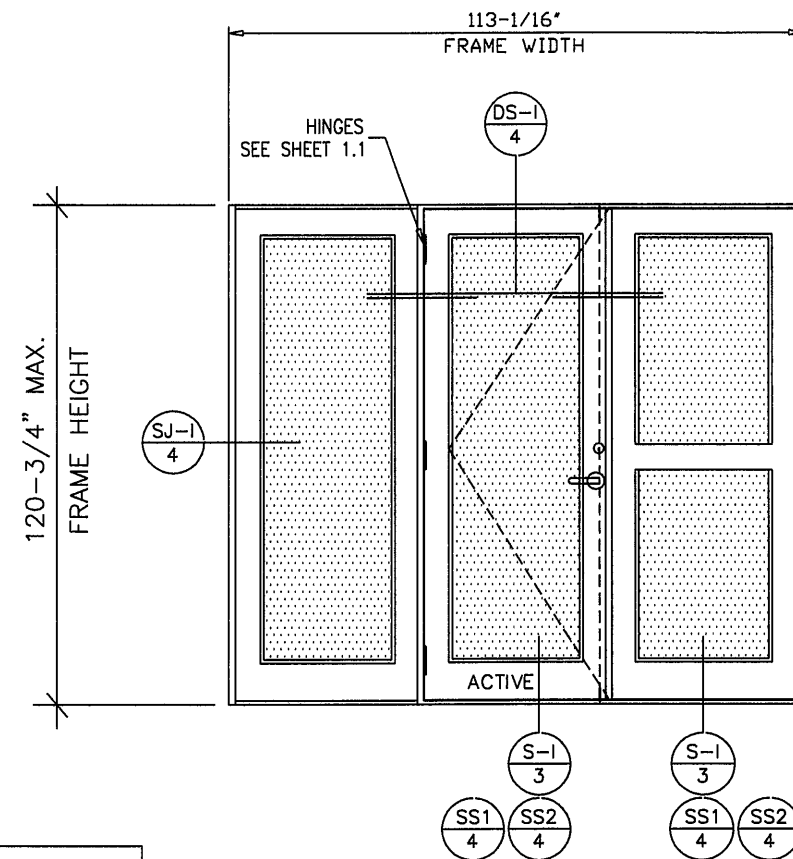
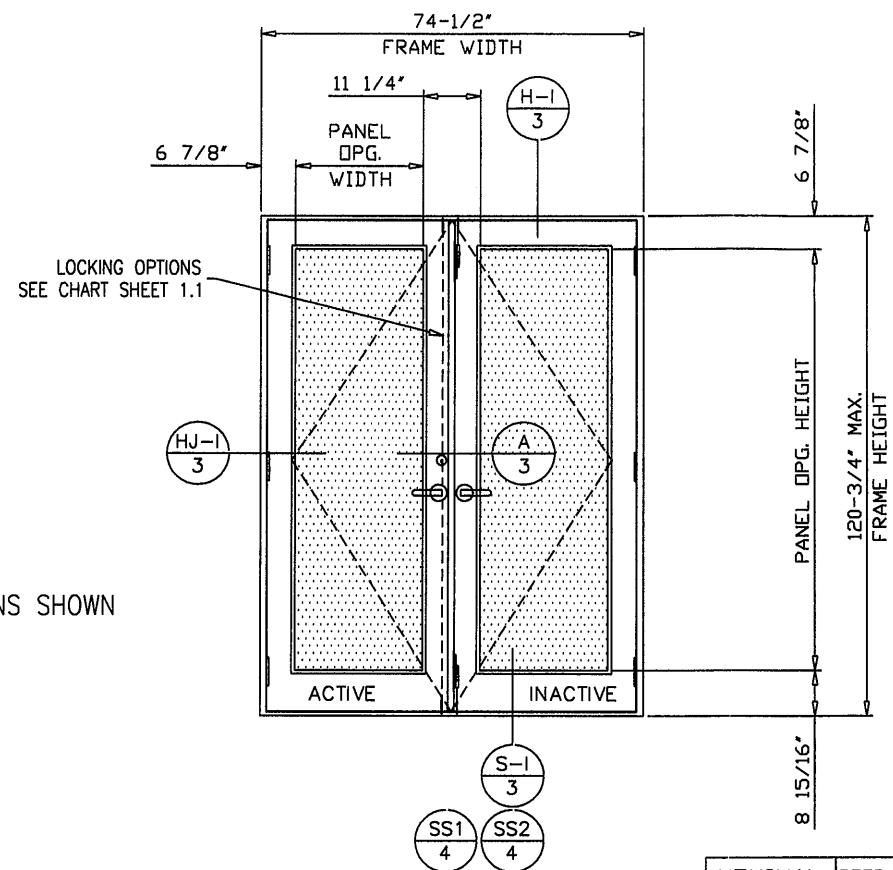
Ishaq I. Chanda, P.E.  
Product Control Examiner  
NOA No 12-0706.01

Expiration Date: October 25, 2017  
Approval Date: October 25, 2012

## TYPICAL ELEVATIONS



LH CONFIGURATIONS SHOWN  
RH SIMILAR



NOMINAL PANEL WIDTH	DOOR/SIDELITE PANEL WIDTH	PANEL OPG. WIDTH
2/0	23-3/4"	12-7/8"
2/6	29-3/4"	18-7/8"
3/0	35-3/4"	24 7/8"
3/6	41-3/4"	30-7/8"

FRAME HEIGHT = PANEL HEIGHT + 1-7/8" (STD. THRESHOLD)  
 FRAME HEIGHT = PANEL HEIGHT + 1-5/8" (ADA THRESHOLD)  
 FRAME WIDTH = PANEL WIDTH + 2-3/4"

NOMINAL PANEL HEIGHT	DOOR/SIDELITE PANEL HEIGHT	PANEL OPG. HEIGHT
6/8	78-7/8"	66-1/2"
7/0	82-7/8"	70-1/2"
7/6	88-7/8"	76-1/2"
8/0	94-7/8"	82-1/2"
8/6	100-7/8"	88-1/2"
9/0	106-7/8"	94-1/2"
9/6	112-7/8"	100-1/2"
10/0	118-7/8"	106-1/2"

FRAME HEIGHT = PANEL HEIGHT + 1-7/8" (STD. THRESHOLD)  
 FRAME HEIGHT = PANEL HEIGHT + 1-5/8" (ADA THRESHOLD)  
 FRAME WIDTH = PANEL WIDTH + 2-3/4"

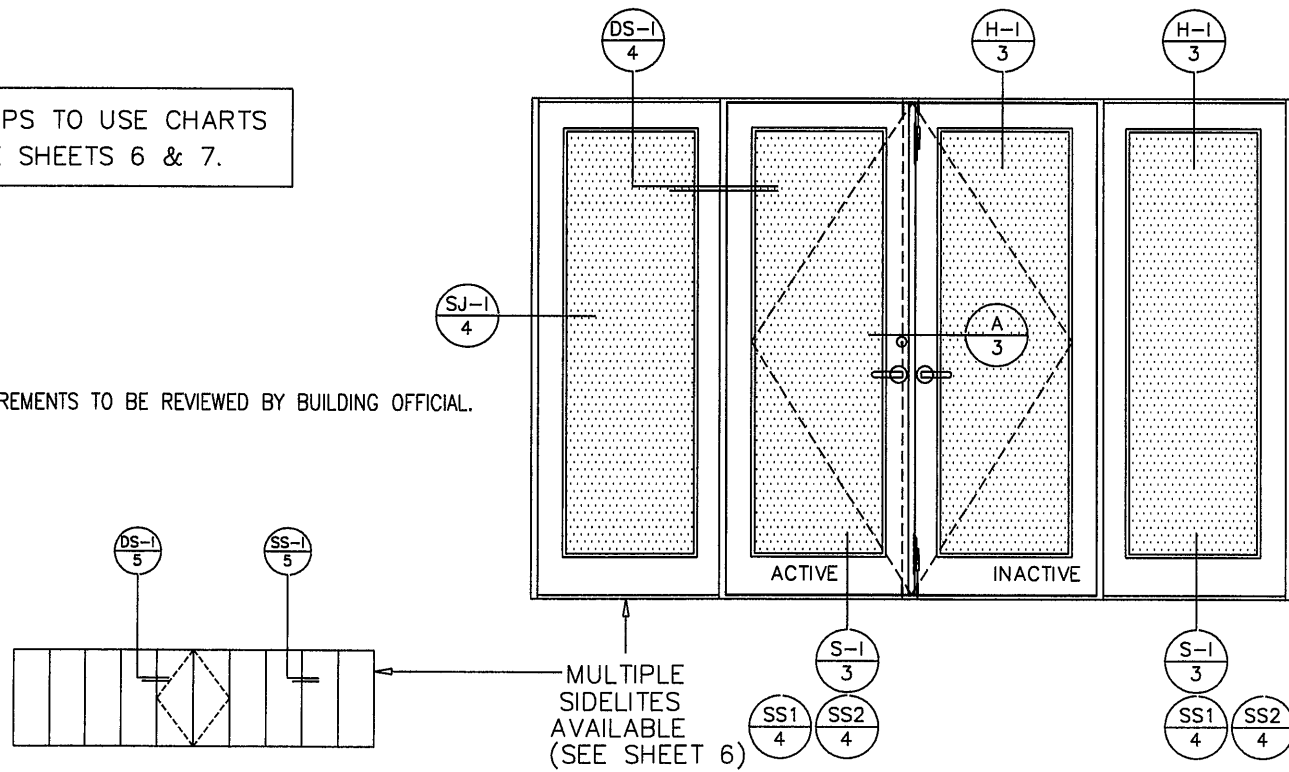
LEGEND

\_\_\_ -I - INSWING DOOR DETAIL

– ITEM DESCRIPTION  
(see sheet 2 of 7)

STEPS TO USE CHARTS  
SEE SHEETS 6 & 7.

NOTE:  
EGRESS REQUIREMENTS TO BE REVIEWED BY BUILDING OFFICIAL.



Engr: JAVAD AHMAD  
CIVIL  
FLA. PE. # 70592  
C.A.N. 3538

JUN 29 2012

Approved as complying with the  
Florida Building Code  
Date OCT 25, 2012  
NGAA 12-2706-01  
Miami Dade Product Control  
By Ismael I. Chavira

DWG. NO.: W12-23



WINDOWS & DOORS

product :	Series 450 INSWING Doors & Sidelites
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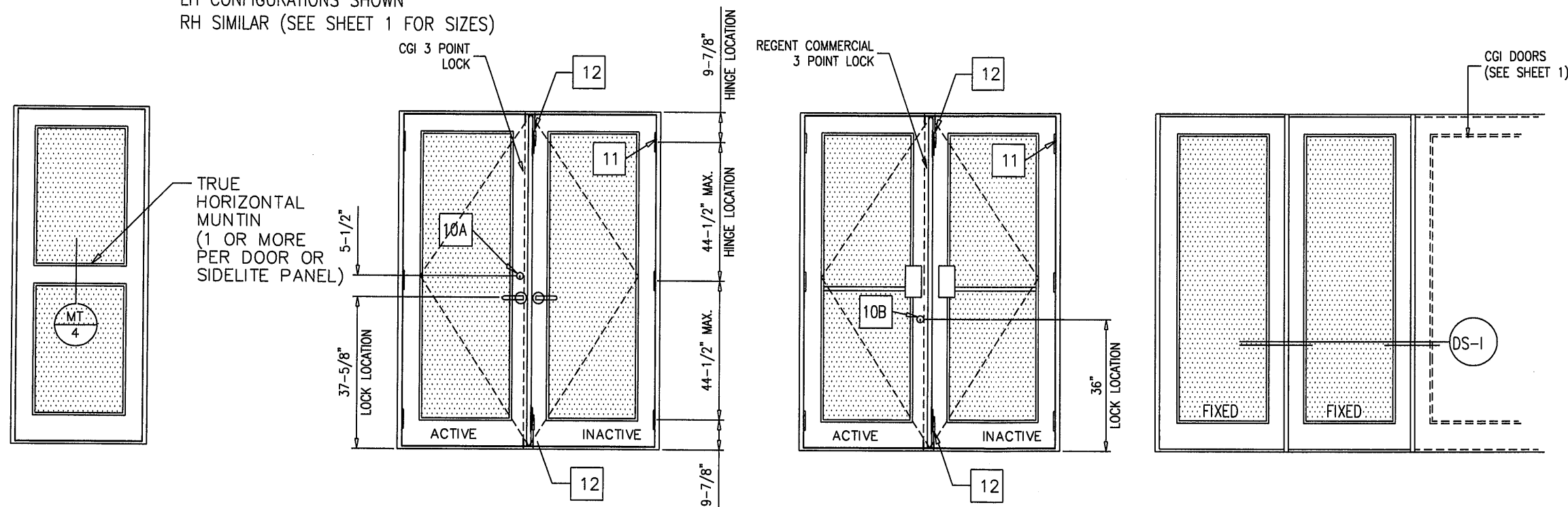
date :	05-22-12	sheet	1	of	7
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# TYPICAL ELEVATIONS

DOOR HEIGHT	10A		10AA		10B		10C & 10CC		10 F	
	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
84"	90.0	90.0	100.0	110.0	100.0	110.0	65.0	65.0	100.0	110.0
96-3/4"	90.0	90.0	100.0	110.0	100.0	110.0	65.0	65.0	90.0	90.0
108-3/4"	-	-	100.0	110.0	100.0	110.0	-	-	90.0	90.0
120-3/4"	-	-	70.0	70.0	70.0	70.0	-	-	70.0	70.0

10A : COPPER CREEK W/ CGI 3 POINT  
 10AA : BALDWIN W/ CGI 3 POINT  
 10B : REGENT COMMERCIAL 3 POINT  
 10C : BALDWIN SINGLE POINT LOCK  
 10CC : COPPER CREEK SINGLE POINT LOCK  
 10F : SURFACE MOUNTED LOCK

LH CONFIGURATIONS SHOWN  
 RH SIMILAR (SEE SHEET 1 FOR SIZES)



OPTIONAL TRUE MUNTINS  
 DOOR OR SIDELITE

RESIDENTIAL HARDWARE

COMMERCIAL HARDWARE

HINGE LOCATIONS		
MAX. DOOR HEIGHT	NO. REQD.	MAX. SPACING
UPTO 90-3/4"	3	35 1/2"
ABOVE 90-3/4" UPTO 120"	4	44 1/2"

DOORS WITH 3 HINGES LIMITED TO 100 PSF

FRAME HEIGHT = PANEL HEIGHT + 1-7/8" (STD. THRESHOLD)  
 FRAME HEIGHT = PANEL HEIGHT + 1-5/8" (ADA THRESHOLD)  
 FRAME WIDTH = PANEL WIDTH + 2-3/4"

HARDWARE DESCRIPTION

LEGEND	
— I —	INSWING DOOR DETAIL
□	ITEM DESCRIPTION (see sheet 2 of 7)

Engr: JAVAD AHMAD  
 CIVIL  
 FLA. PE # 70592  
 C.A.N. 3538

JUN 29 2012

Approved as complying with the  
 Florida Building Code  
 Date: 10/25/12  
 NOA# 12-0206-01  
 Miami Dade Product Control  
 By: Ishag I. Lhauide

DWG. NO.: W12-23



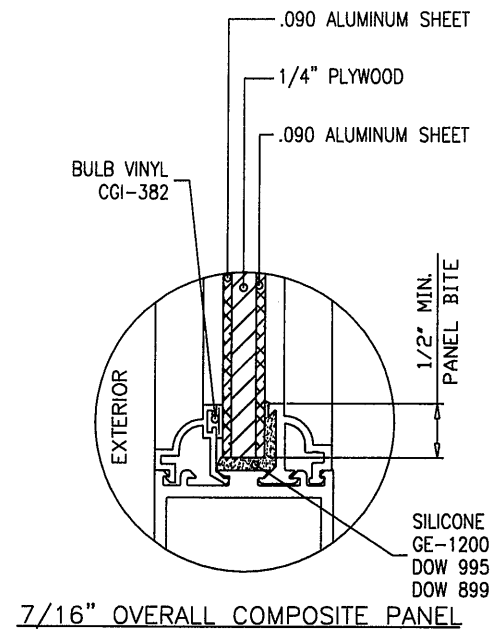
WINDOWS & DOORS

10100 northwest 25 street miami, florida 33172

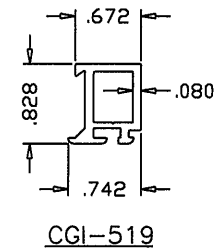
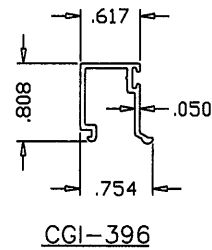
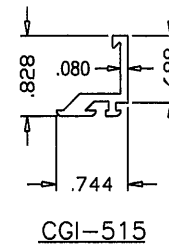
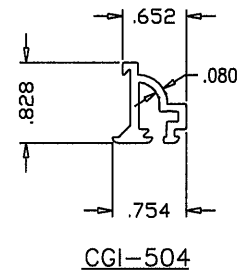
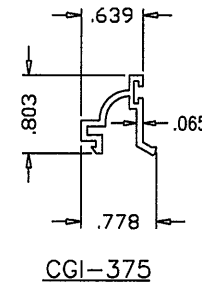
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date : 05-22-12

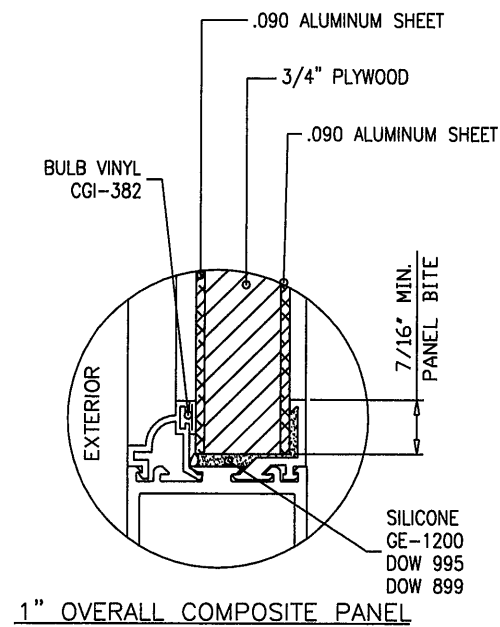
sheet 1.1 of 7



## PANEL STOP OPTIONS



PANEL STOPS CAN BE SQUARE OR OGEE



DWG. NO.: W12-23

Engr: JAVAD AHMAD  
CIVIL  
FLA. PE # 70592  
C.A.N. 3538

*[Signature]*  
JUN 29 2012

Approved as complying with the  
Florida Building Code  
Date 10/25/12  
NOA# 12-0706-01  
Miami Dade Product Control  
*[Signature]*



WINDOWS & DOORS

10100 northwest 25 street miami, florida 33172

product : Series 450 INSWING Doors & Sidelites

date : 05-22-12

sheet 1.2 of 7

# BILL OF MATERIALS

ITEM	DESCRIPTION
1	#12 X 1 1/4" HEX HEAD S/S SMS (3 PER CORNER CONNECTION)
2A	3/8-16 FULLY THREADED CONTINUOUS ROD
2B	3/8-16 HEX NUT
2C	1 1/2" X 1 1/2" X 3/16"THK. ALUMINUM PLATE
3	SHEAR CLIP (EXT. NO. 506)
4	DOUBLE 9/32" DIA. JAMB INSTLL. HOLES AT 6" FROM ENDS & 24" O.C. MAX.
5	9/32" DIA. HEAD & SILL INSTLL. HOLES AT 6" FROM ENDS, 3 @ CENTER OF PAIRS SPACED 6" O.C. & 24" O.C. MAX.
6	#10 X 1" PH-PH-SS TEKS SCREW, @ 3" & 7" FROM ENDS & 19-3/8" O.C. MAX.
7	#14 X 3/4" HEX HEAD S/S TEKS SCREW AT 6" FROM ENDS & 24 3/16" O.C. MAX.
8	.320 HIGH WOOL PILE WITH CENTER FIN (ULTRAFAB # 3032)
9	.350 HIGH FOAM-TITE WEATHERSEAL (AMESBURY # 32011)
10	ACTIVE PANEL LOCK OPTIONS (SEE SHEET 1.1 FOR LIMITS)
10A	CGI CUSTOM 3 POINT LOCK 4503PL, CONSISTING OF (2) CGI CUSTOM END BOLTS (TOP & BOTTOM), ATTACHED WITH #10 X 3/4" PH SMS, (1) CGI CUSTOM INTERIOR LINKAGE MECHANISM, (1) DEADBOLT BY COPPER CREEK SERIES E MODEL D82410.
10AA	CGI CUSTOM 3 POINT LOCK 4503PL, CONSISTING OF (2) CGI CUSTOM END BOLTS (TOP & BOTTOM), ATTACHED WITH #10 X 3/4" PH SMS, (1) CGI CUSTOM INTERIOR LINKAGE MECHANISM, (1) DEADBOLT BY BALDWIN SERIES 8200, KWKSET 780.
10B	REGENT COMMERCIAL 2222 THREE POINT LOCK MECHANISM WITH MORTISE LOCK.
10C	SINGLE POINT LOCK (1) DEADBOLT BY BALDWIN SERIES 8200.
10CC	SINGLE POINT LOCK (1) DEADBOLT BY COPPER CREEK SERIES D82410.
10F	CGI CUSTOM SURFACE MOUNTED SLIDE BOLTS WITH CGI END BOLTS AT ACTIVE LEAF (AT TOP & BOTTOM) WITH BALDWIN SERIES 8200 DEAD BOLT.

11	HAGER 4 1/2" X 4" HINGE IN SOLID BRASS OR STAINLESS STEEL CGI 4-1/2" X 4" HINGE IN ALUMINUM SECURED WITH (8) #12-24 X 1/2" F.H. M.S. (3 PER PANEL UP TO 7'-6 3/4" HIGH) (4 PER PANEL OVER 7'-6 3/4")
12	CGI FLUSHBOLT AT TOP & BOTTOM OF INACTIVE LEAF, HOUSING ATTACHED TO PANEL STILE WITH #10 X 3/4" PH SMS, ACTIVATOR ATTACHED WITH #8 X 1/2" PH SMS.
13	SEE SHEET 1.2 FOR GLAZING OPTIONS
14	SILICONE GE-1200, DOW 995, DOW 899
17	1/2" X 1/2" CONTINUOUS CLOSED CELL FOAM TAPE WITH ONE SIDE ADHESIVE
18	PLASTIC WEEP BAFFLE
19	7/8" X 5" X 1/8" THK. CONTINUOUS ALUMINUM SILL ANGLE ADAPTOR

EXT. = EXTRUSION LIST 500A, 501, 502, 503, 504, 507, 509, 510, 514, 515, 519, 539, & 540 ALL EXTRUSIONS ARE 6063-T6.  
375, 396, 505, 508, 511 EXTRUSIONS ARE 6063-T5.

DWG. NO.: W12-23

Engr: JAVAD AHMAD  
CIVIL  
FLA. PE # 70592  
C.A.N. 3538

*[Signature]*

JUN 29 2012

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NOA# 12-0706.01  
Miami Code Product Control  
*[Signature]*

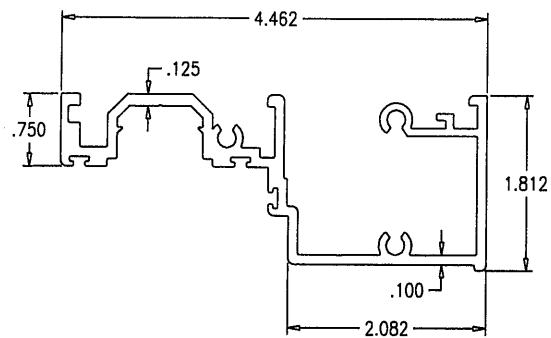


WINDOWS & DOORS

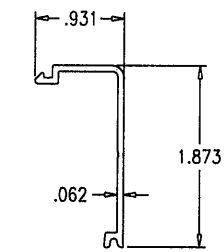
10100 northwest 25 street miami, florida 33172

product : Series 450 INSWING Doors & Sidelites

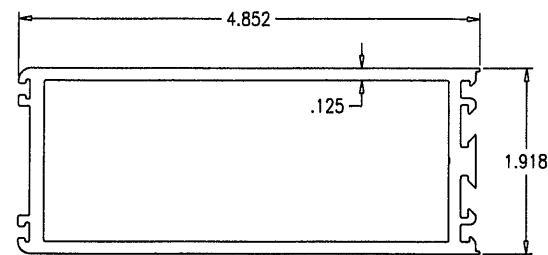
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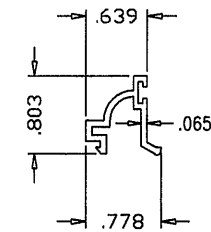
CGI-507  
DOOR FRAME HEAD/SILL



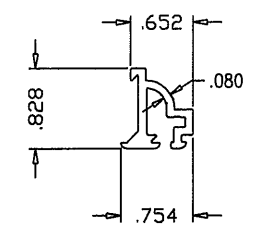
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JAMB COVER



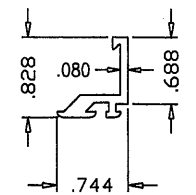
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JAMB/LOCK/SIDELITE STILE



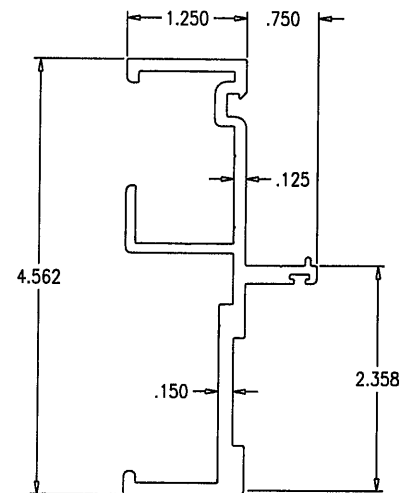
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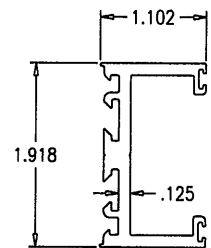
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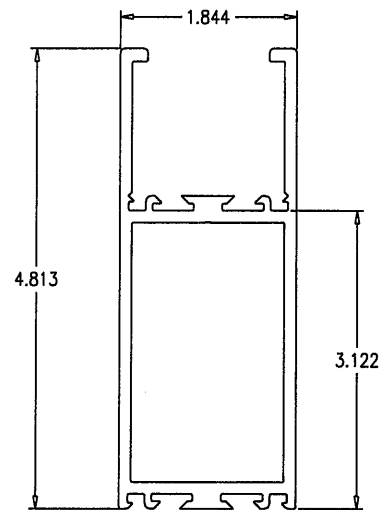
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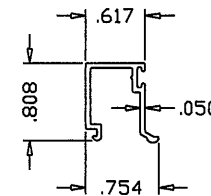
CGI-509  
FRAME JAMB/MULLION



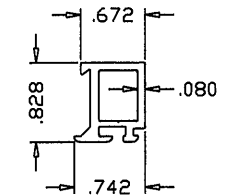
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NARROW SIDELITE STILE



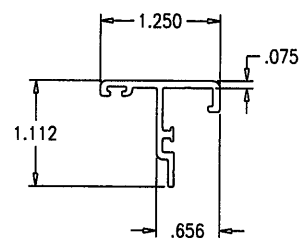
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TOP RAIL



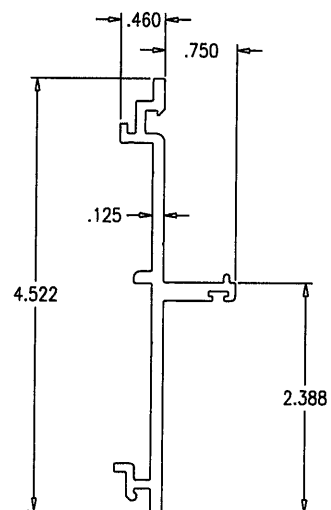
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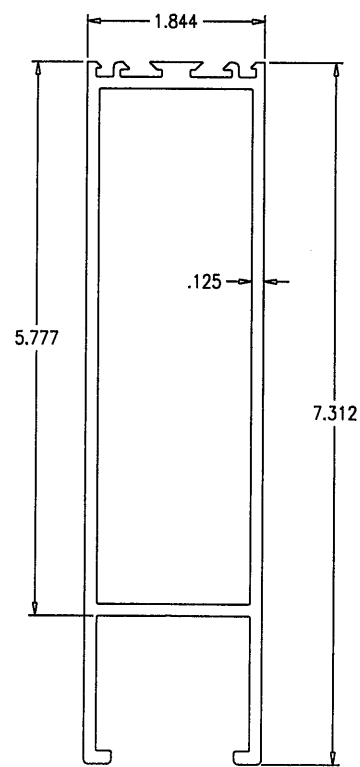
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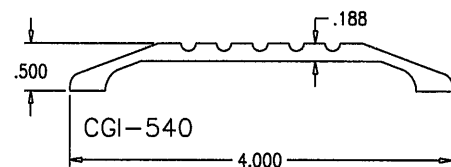
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ASTRAGAL



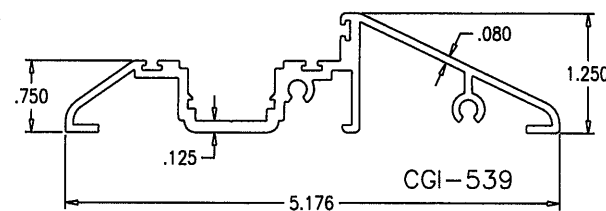
CGI-510  
SIDELITE MULLION



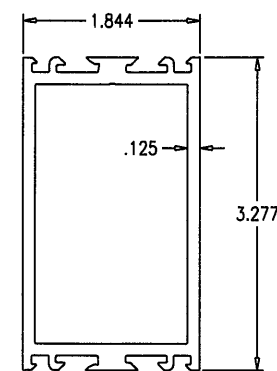
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BOTTOM RAIL



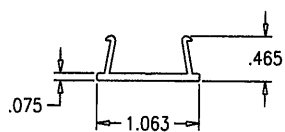
CGI-540



CGI-539  
SADDLE THRESHOLDS



CGI-514  
HORIZONTAL MUNTIN



CGI-508  
FRAME COVER

Approved as complying with the  
Florida Building Code  
Date 10/25/12  
By [Signature]  
Miami Dade Product Control

DWG. NO.: W12-23

Engr: JAVAD AHMAD  
CIVIL  
FLA. PE # 70592  
C.A.N. 3538

[Signature]  
JUN 29 2012



WINDOWS & DOORS

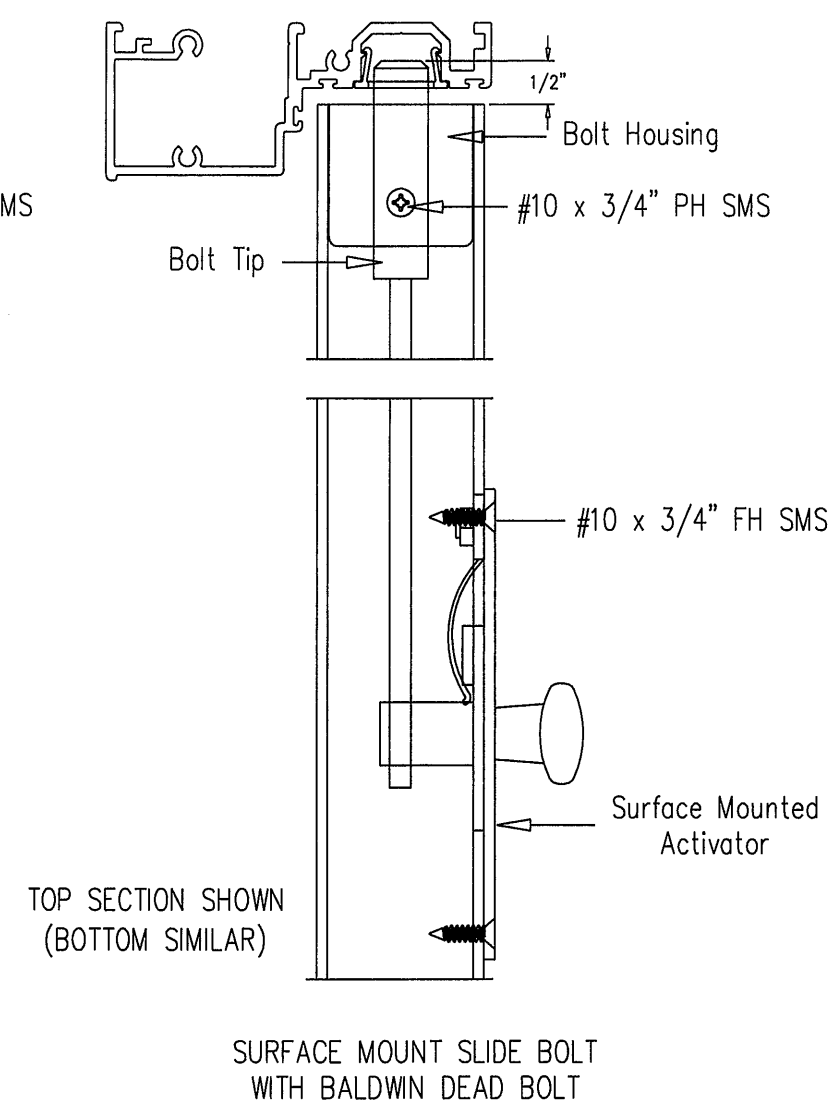
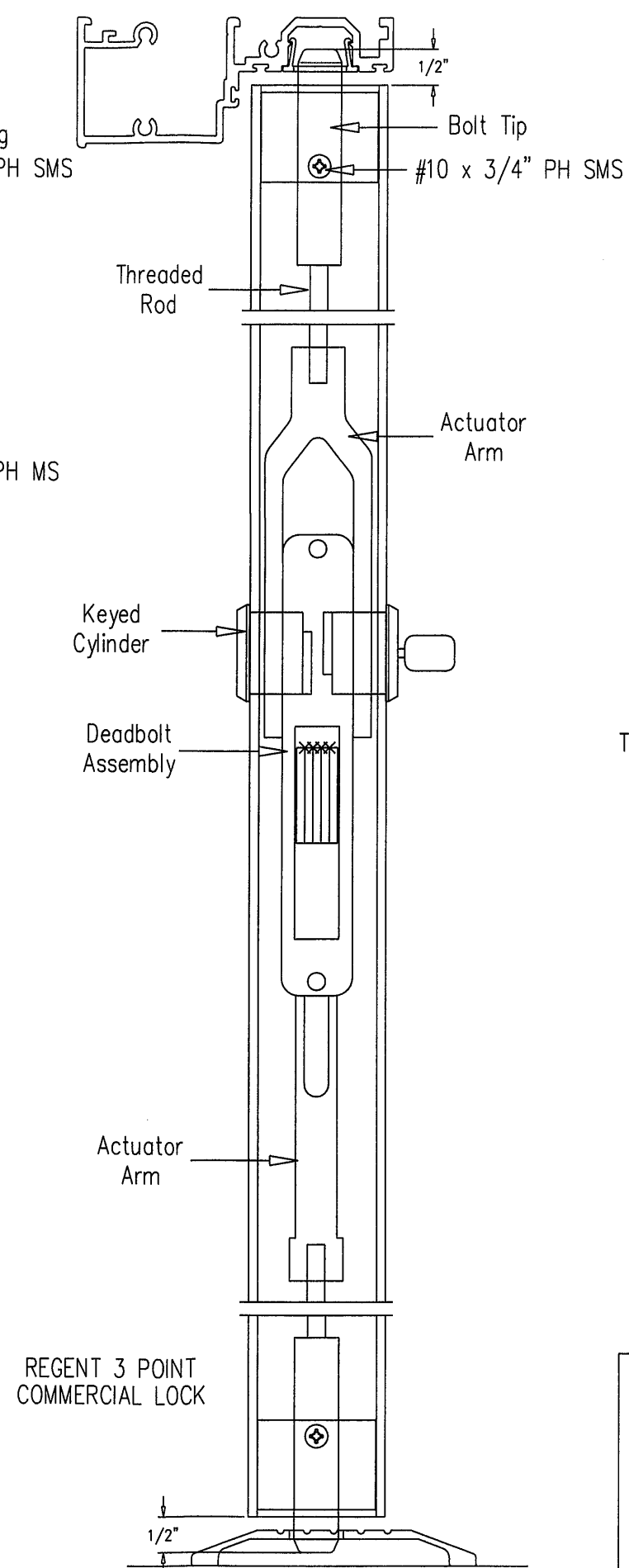
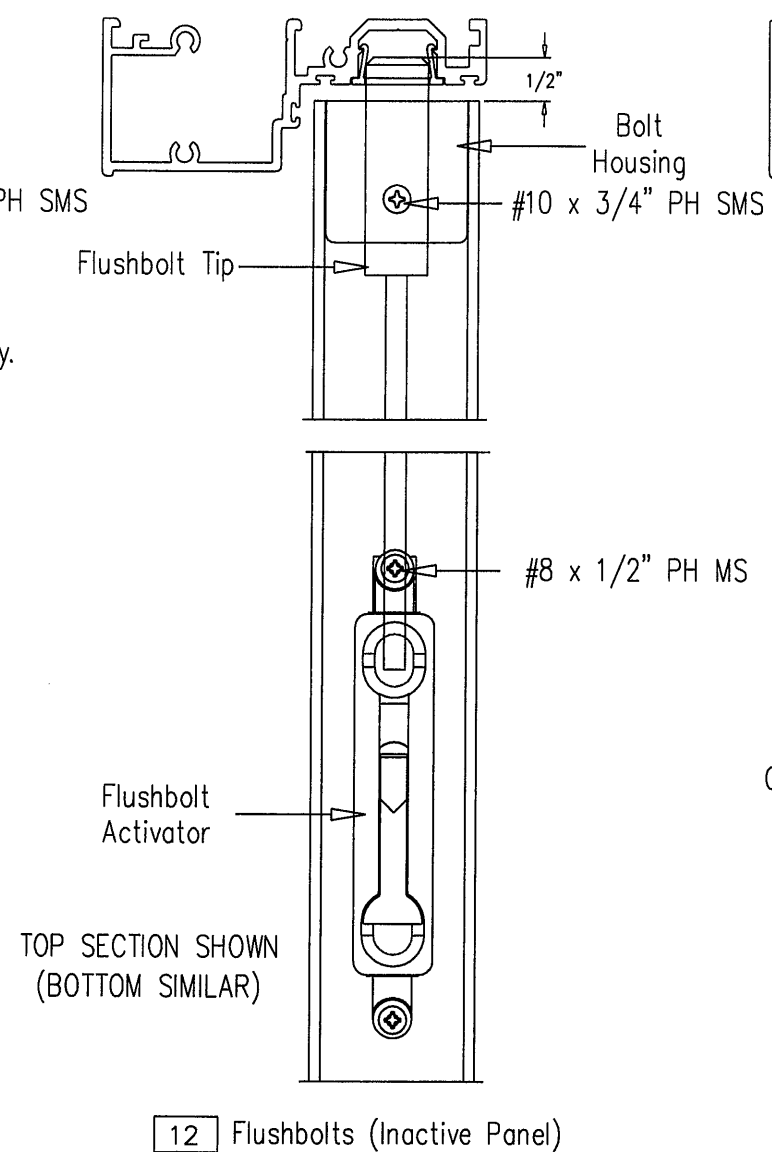
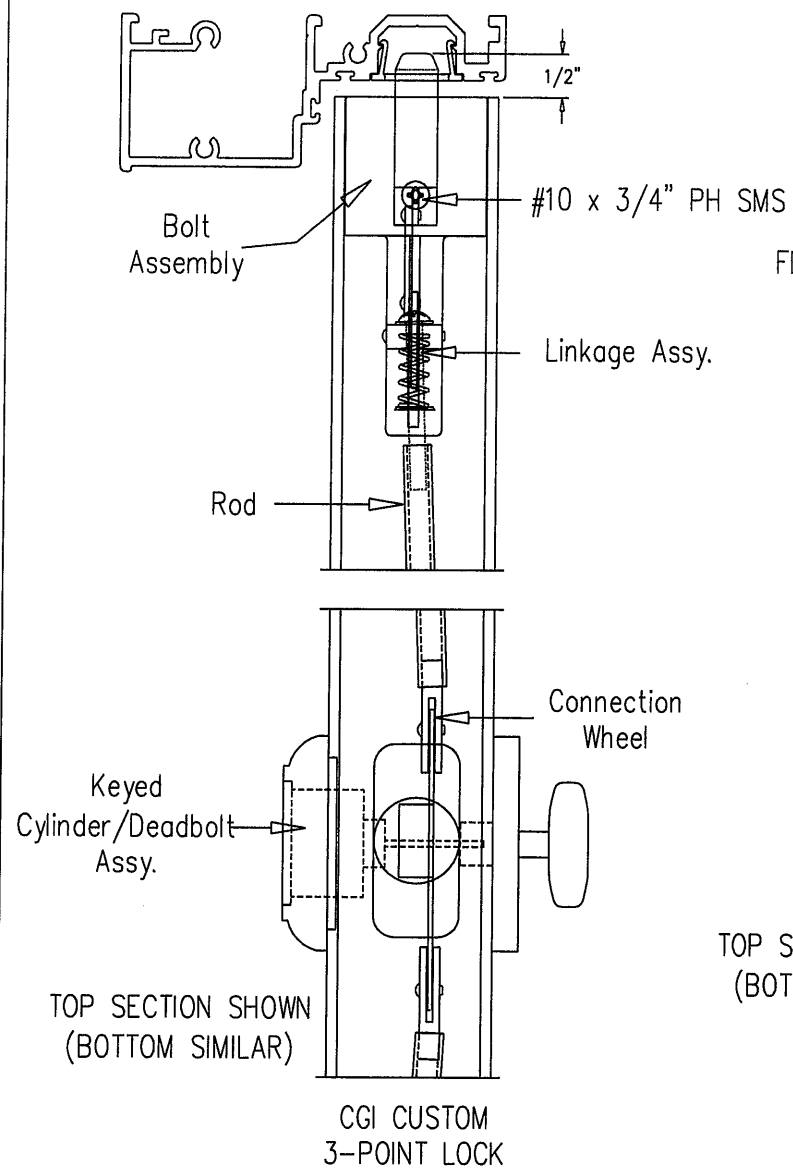
10100 northwest 25 street miami, florida 33172

product : Series 450 INSWING Doors & Sidelites

date : 05-22-12

sheet 2.1 of 7





Approved as complying with the  
Florida Building Code  
Date 10/25/12  
NGAS 12-0706-12  
Miami Code Product Control  
Shing J. Ugan

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WINDOWS & DOORS

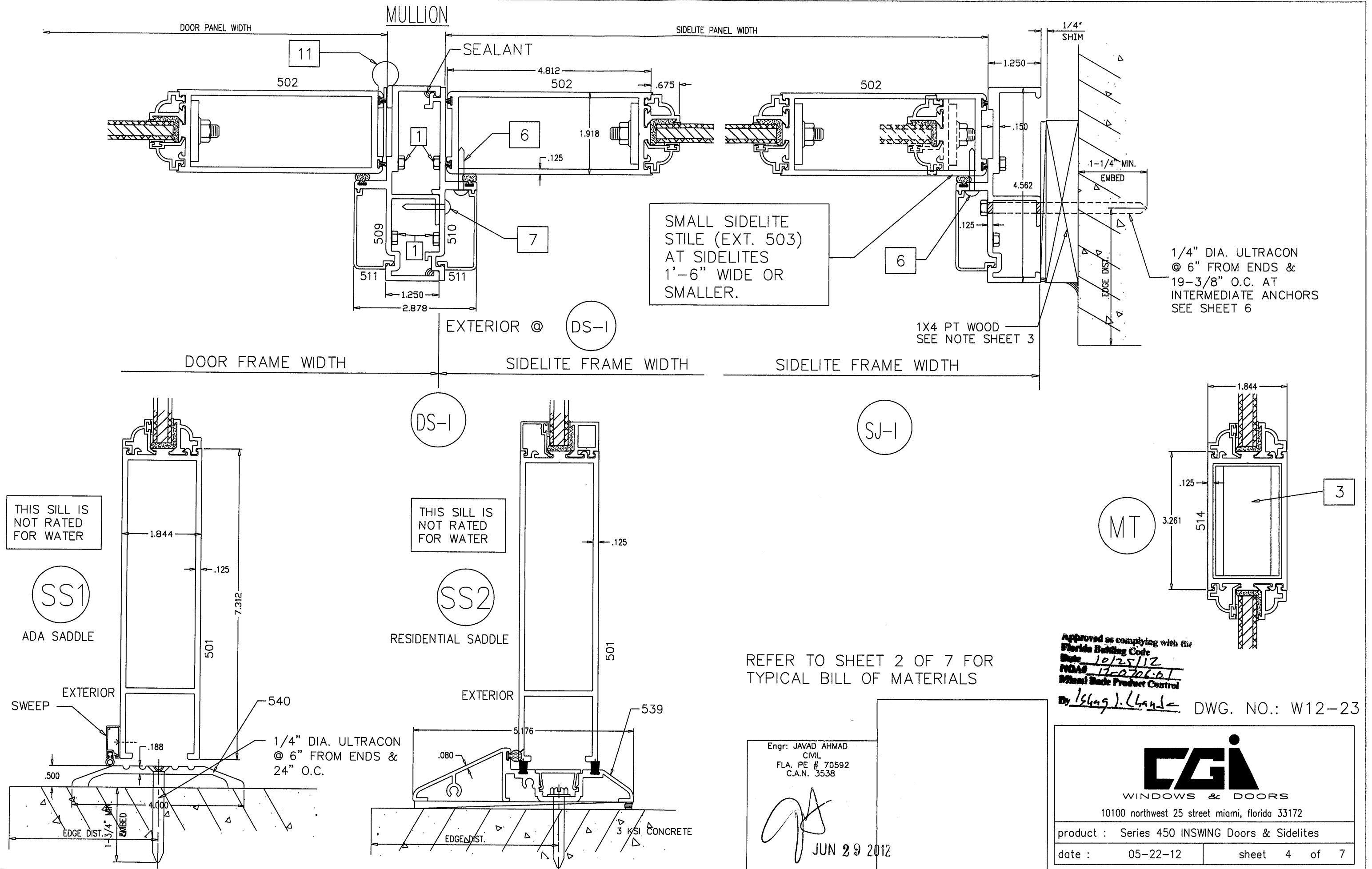
10100 northwest 25 street miami, florida 33172

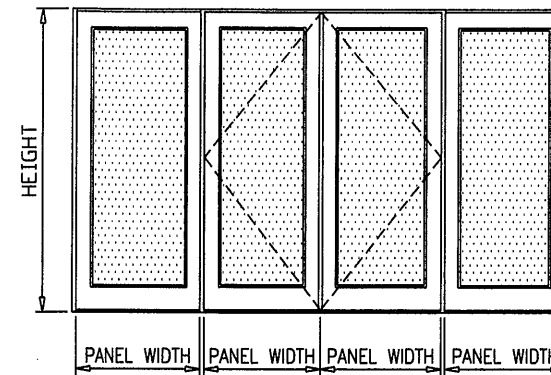
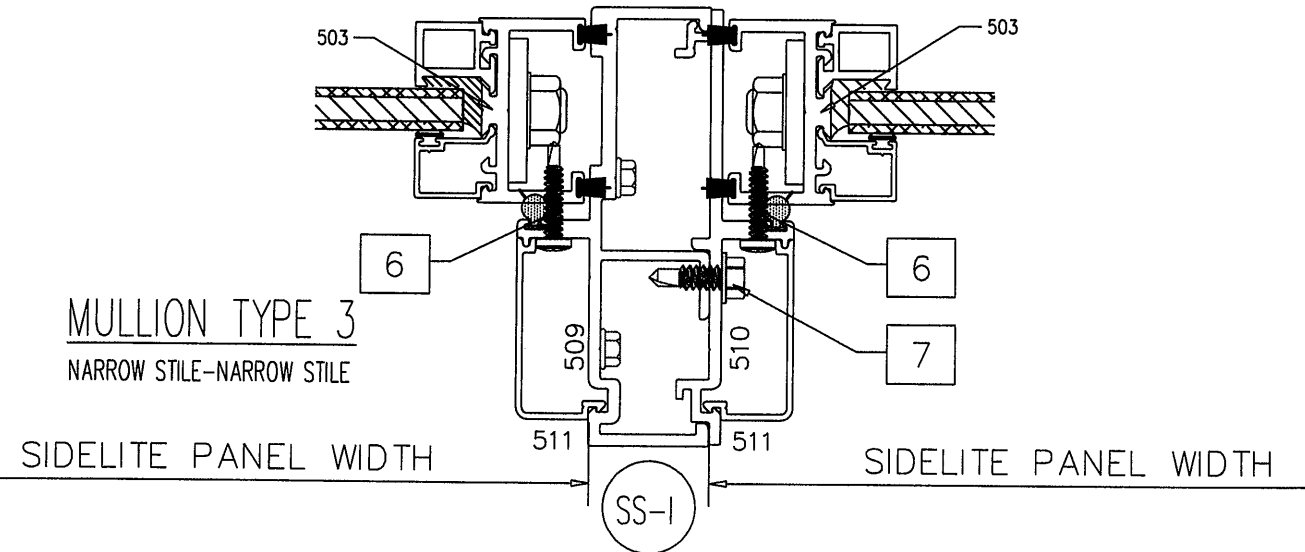
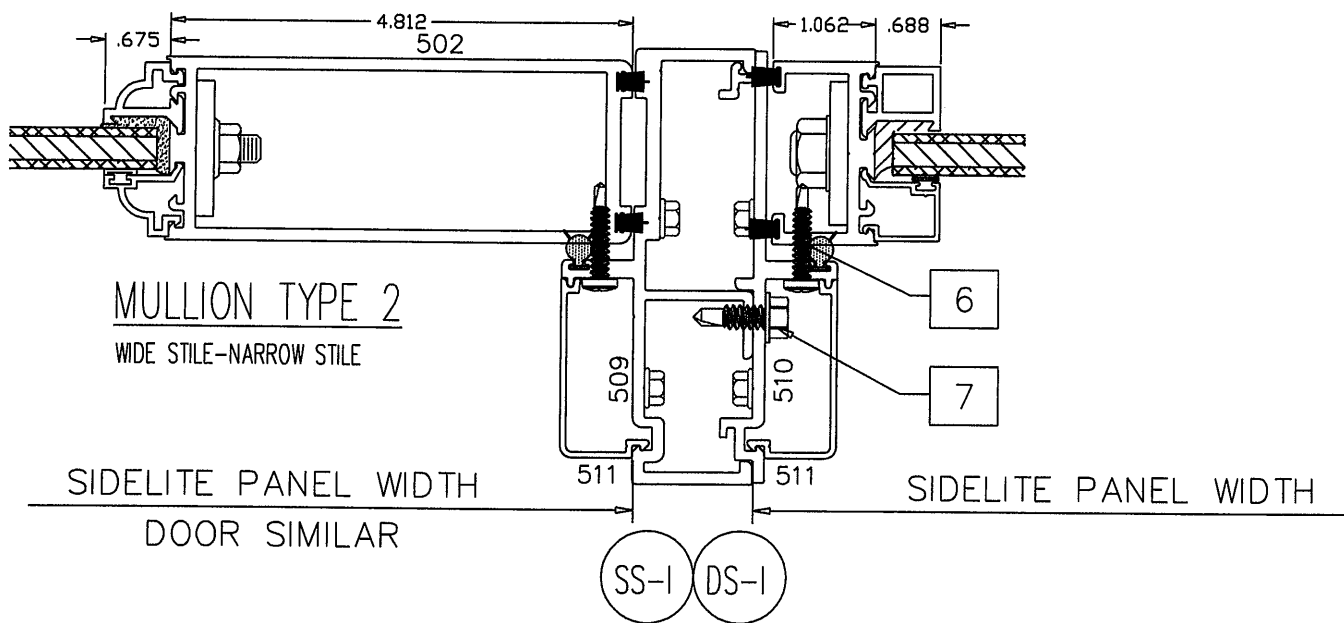
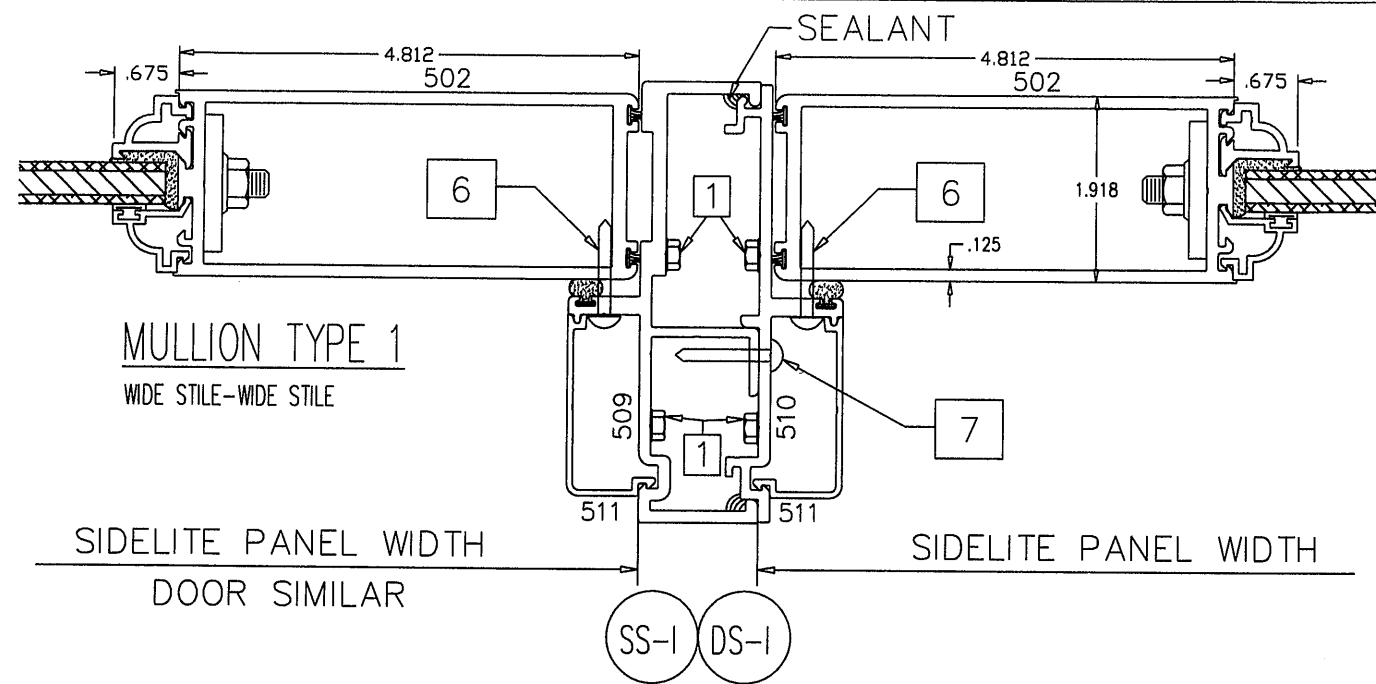
product : Series 450 INSWING Doors & Sidelites

date : 05-22-12

sheet 2.2 of 7







$$\text{WIDTH (W)} = \frac{\text{DOOR PANEL} + \text{FIXED PANEL}}{2}$$

MULLION PERFORMANCE CHART DESIGN LOAD CAPACITY - PSF							
NOMINAL DIMS.		MULL TYPE 1		MULL TYPE 2		MULL TYPE 3	
WIDTH (W)	HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
1/6	6/8	100.0	110.0	100.0	110.0	100.0	110.0
2/0		100.0	110.0	100.0	110.0	100.0	110.0
2/6		100.0	110.0	100.0	110.0	-	-
3/0		100.0	110.0	100.0	110.0	-	-
3/6		100.0	110.0	70.0	70.0	-	-
1/6	7/0	100.0	110.0	100.0	110.0	100.0	110.0
2/0		100.0	110.0	100.0	110.0	100.0	110.0
2/6		100.0	110.0	100.0	110.0	-	-
3/0		100.0	110.0	100.0	110.0	-	-
3/6		100.0	110.0	-	-	-	-
1/6	7/6	100.0	110.0	100.0	110.0	100.0	110.0
2/0		100.0	110.0	100.0	110.0	70.0	70.0
2/6		100.0	110.0	100.0	110.0	-	-
3/0		100.0	110.0	70.0	70.0	-	-
3/6		100.0	110.0	-	-	-	-
1/6	8/0	100.0	110.0	100.0	110.0	100.0	110.0
2/0		100.0	110.0	100.0	110.0	70.0	70.0
2/6		100.0	110.0	100.0	110.0	-	-
3/0		100.0	110.0	-	-	-	-
3/6		100.0	104.6	-	-	-	-
1/6	8/6	100.0	110.0	100.0	110.0	100.0	110.0
2/0		100.0	110.0	100.0	110.0	-	-
2/6		100.0	110.0	100.0	100.4	-	-
3/0		98.9	98.9	-	-	-	-
3/6		70.0	70.0	-	-	-	-
1/6	9/0	100.0	110.0	100.0	110.0	100.0	110.0
2/0		100.0	110.0	100.0	104.1	-	-
2/6		98.1	98.1	70.0	70.0	-	-
3/0		82.9	82.9	-	-	-	-
1/6	9/6	70.0	70.0	70.0	70.0	100.0	110.0
2/0		70.0	70.0	70.0	70.0	-	-
2/6		70.0	70.0	-	-	-	-
3/0		70.0	70.0	-	-	-	-
1/6	10/0	70.0	70.0	70.0	70.0	70.0	70.0
2/0		70.0	70.0	70.0	70.0	-	-
2/6		70.0	70.0	-	-	-	-
3/0		59.9	59.9	-	-	-	-

REFER TO SHEET 2 OF 7 FOR  
TYPICAL BILL OF MATERIALS

Approved as complying with the  
Florida Building Code  
Date: 10/25/12  
By: 12-0706-01  
Official State Product Control  
By: Ishag I. Uman

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Engr: JAVAD AHMAD  
CIVIL  
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JUN 29 2012



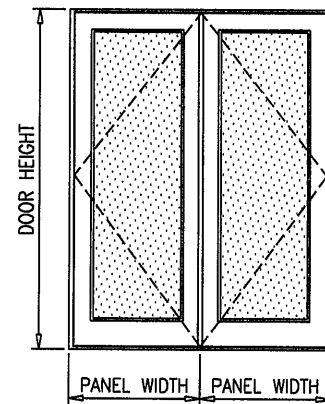
WINDOWS & DOORS  
10100 northwest 25 street miami, florida 33172

product : Series 450 INSWING Doors & Sidelites

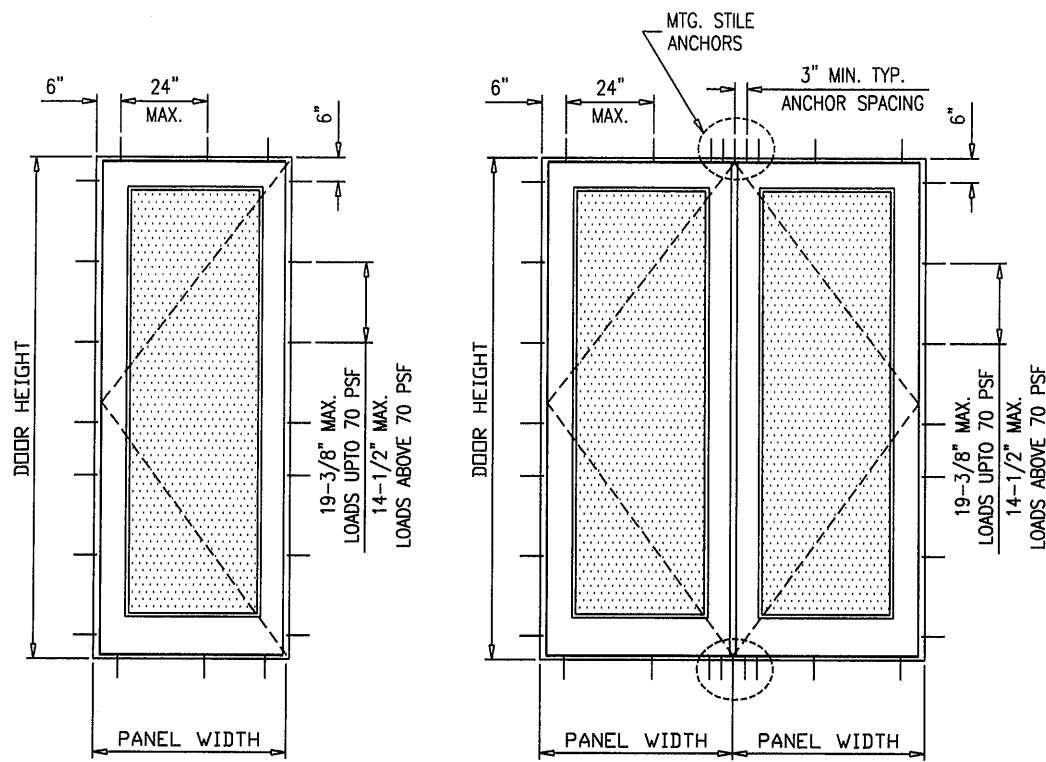
date : 05-22-12 sheet 5 of 7

<b>PANEL PERFORMANCE CHART FOR</b> <b>SINGLE &amp; DOUBLE DOORS &amp; SINGLE SIDELITES</b> <b>(NARROW STILE SIDELITES LIMITED TO 18" OR LESS)</b> <b>DESIGN LOAD CAPACITY – PSF</b>			
<b>NOMINAL DIMS.</b>		<b>7/16" COMPOSITE PANELS</b> <b>1" COMPOSITE PANELS</b>	
<b>NOM. PANEL WIDTH</b>	<b>NOM. PANEL HEIGHT</b>	<b>EXT. (+)</b>	<b>INT. (-)</b>
2/0	6/8	100.0	110.0
2/6		100.0	110.0
3/0		100.0	110.0
3/6		100.0	110.0
2/0	7/0	100.0	110.0
2/6		100.0	110.0
3/0		100.0	110.0
3/6		100.0	110.0
2/0	7/6	100.0	110.0
2/6		100.0	110.0
3/0		100.0	110.0
3/6		100.0	110.0
2/0	8/0	100.0	110.0
2/6		100.0	110.0
3/0		100.0	110.0
3/6		70.0	70.0
2/0	8/6	100.0	110.0
2/6		100.0	110.0
3/0		100.0	110.0
3/6		70.0	70.0
2/0	9/0	100.0	110.0
2/6		100.0	110.0
3/0		100.0	110.0
2/0	9/6	70.0	70.0
2/6		70.0	70.0
3/0		70.0	70.0
2/0	10/0	70.0	70.0
2/6		70.0	70.0
3/0		70.0	70.0

LOADS SHOWN ABOVE ARE FOR INSTALLATIONS WHERE WATER INFILTRATION RESISTANCE IS NOT REQUIRED.  
LIMIT EXT.(+) LOADS TO 50.0 PSF FOR THRESHOLD (S-1) WHERE WATER INFILTRATION RESISTANCE IS REQUIRED.  
THRESHOLD (SS1) & (SS2) ARE NOT RATED FOR WATER INFILTRATION.

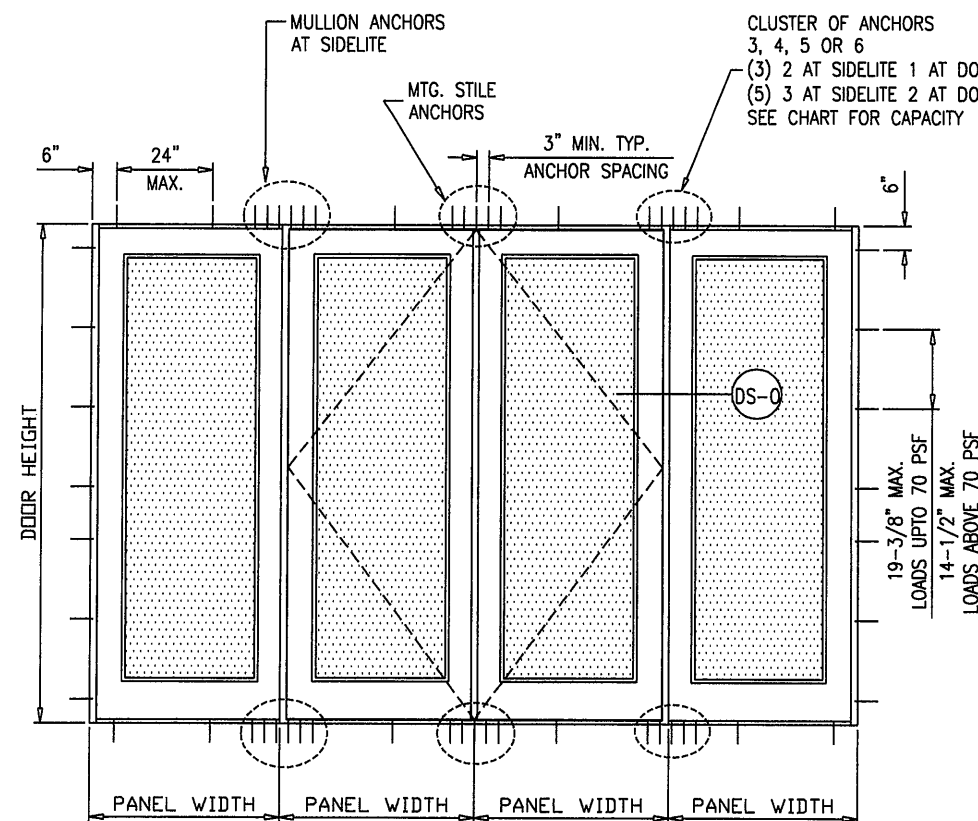


date : 05-22-12	sheet 6 of 7
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SINGLE DOOR OR SIDELITE

DOUBLE DOOR



#### ANCHORS:

TYPE 'B' - 1/4" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)  
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES  
 1-1/2" MIN. PENETRATION INTO WOOD  
 THRU 1BY WOOD BUCKS INTO CONCRETE  
 1-1/4" MIN. EMBED INTO CONC. OR MASONRY  
 DIRECTLY INTO CONCRETE  
 1-1/4" MIN. EMBED INTO CONC. OR MASONRY

#### EDGE DISTANCES

INTO CONCRETE AND MASONRY = 2" MIN.  
 INTO WOOD STRUCTURE = 1" MIN.

TYPE 'C' - 1/4" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)  
 DIRECTLY INTO CONCRETE  
 1-3/4" MIN. EMBED INTO CONC.

#### EDGE DISTANCES

INTO CONCRETE = 2-1/2" MIN.

CONCRETE f'c = 3000 PSI MIN.  
 C-90 HOLLOW/FILLED BLOCK f'm = 2000 PSI MIN.

#### MULLION ANCHORS AT SIDELITES

NOMINAL DIMS.		DESIGN LOAD CAPACITY-PSF				
		TYPE 'B'			TYPE 'C'	
		CLUSTER OF 3 ANCHORS	CLUSTER OF 4 ANCHORS	CLUSTER OF 6 ANCHORS	CLUSTER OF 3 ANCHORS	CLUSTER OF 4 ANCHORS
2/0	6/8	100.3	110.0	110.0	110.0	110.0
2/6		81.1	110.0	110.0	110.0	110.0
3/0		68.0	90.7	110.0	110.0	110.0
3/6		58.6	78.1	110.0	101.3	110.0
2/0	7/0	95.6	110.0	110.0	110.0	110.0
2/6		77.2	103.0	110.0	110.0	110.0
3/0		64.8	86.4	110.0	110.0	110.0
3/6		55.8	74.4	110.0	96.5	110.0
2/0	7/6	89.3	110.0	110.0	110.0	110.0
2/6		72.1	96.2	110.0	110.0	110.0
3/0		60.5	80.7	110.0	104.6	110.0
3/6		52.1	69.5	104.3	90.1	110.0
2/0	8/0	83.7	111.6	110.0	110.0	110.0
2/6		67.7	90.2	110.0	110.0	110.0
3/0		56.8	75.7	110.0	98.1	110.0
3/6		48.9	65.2	97.8	84.5	107.8
2/0	8/6	78.8	105.1	110.0	110.0	110.0
2/6		63.7	84.9	110.0	110.0	110.0
3/0		53.5	71.3	106.9	92.4	110.0
3/6		46.0	61.4	92.1	79.6	101.5
2/0	9/0	74.5	99.3	110.0	110.0	110.0
2/6		60.2	80.3	110.0	104.0	110.0
3/0		50.5	67.3	110.0	87.3	110.0
2/0	9/6	70.6	94.1	110.0	110.0	110.0
2/6		57.0	76.1	110.0	98.6	110.0
3/0		47.9	63.8	95.7	82.7	105.6
2/0	10/0	67.1	89.4	110.0	110.0	110.0
2/6		54.2	72.3	108.4	93.7	110.0
3/0		45.5	60.6	91.0	78.6	100.3

#### MTG. STILE ANCHORS AT DOUBLE DOORS

NOMINAL DIMS.		DESIGN LOAD CAPACITY-PSF				
		TYPE 'B' & TYPE 'C' AT SS1 SILL			TYPE 'C' AT S-0 & SS2 SILL	
		CLUSTER OF 3 ANCHORS	CLUSTER OF 4 ANCHORS	CLUSTER OF 5 ANCHORS	CLUSTER OF 3 ANCHORS	CLUSTER OF 4 ANCHORS
2/0	6/8	105.7	110.0	110.0	110.0	110.0
2/6		84.5	110.0	110.0	110.0	110.0
3/0		70.4	93.9	110.0	110.0	110.0
3/6		60.4	80.5	110.0	110.0	110.0
2/0	7/0	100.7	110.0	110.0	110.0	110.0
2/6		80.5	107.4	110.0	110.0	110.0
3/0		67.1	89.5	110.0	110.0	110.0
3/6		57.5	76.7	110.0	108.0	110.0
2/0	7/6	94.0	110.0	110.0	110.0	110.0
2/6		75.2	100.3	110.0	110.0	110.0
3/0		62.7	83.6	110.0	110.0	110.0
3/6		53.7	71.6	107.4	100.9	110.0
2/0	8/0	88.2	110.0	110.0	110.0	110.0
2/6		70.5	94.1	110.0	110.0	110.0
3/0		58.8	78.4	110.0	110.0	110.0
3/6		50.4	67.2	100.8	94.6	110.0
2/0	8/6	83.0	110.0	110.0	110.0	110.0
2/6		66.4	88.6	110.0	110.0	110.0
3/0		55.4	73.8	110.0	103.9	110.0
3/6		47.4	63.3	94.9	89.1	110.0
2/0	9/0	78.5	104.6	110.0	110.0	110.0
2/6		62.8	83.7	110.0	110.0	110.0
3/0		52.3	69.7	104.6	98.2	110.0
2/0	9/6	74.4	99.1	110.0	110.0	110.0
2/6		59.5	79.3	110.0	110.0	110.0
3/0		49.6	66.1	99.1	93.1	110.0
2/0	10/0	70.7	94.2	110.0	110.0	110.0
2/6		56.5	75.4	110.0	106.1	110.0
3/0		47.1	62.8	94.2	88.4	110.0

TYPICAL ANCHORS SPACED AS SHOWN IN DETAILS AND CHARTS.  
 ANCHORS TO BE AT 6" FROM CORNERS  
 MAX. SPACING 24" O.C. AT HEAD & SILL.

#### STEPS TO USE CHARTS:

1. SELECT TYPE OF ANCHOR.
2. FOR SIZE OF UNITS DETERMINE ALLOWABLE LOAD CAPACITY. THIS LOAD CAPACITY MUST MEET OR EXCEED DESIGN WIND LOAD REQUIREMENT DETERMINE IN STEP 1 OF SHEET 6.

Approved as complying with the  
 Florida Building Code  
 Date 10/25/12  
 NDAS 12-0706-P1  
 Miami State Product Control  
 By [Signature]

Engr: JAVAD AHMAD  
 CIVIL  
 FLA. PE # 70592  
 C.A.N. 3538

[Signature]  
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DWG. NO.: W12-23



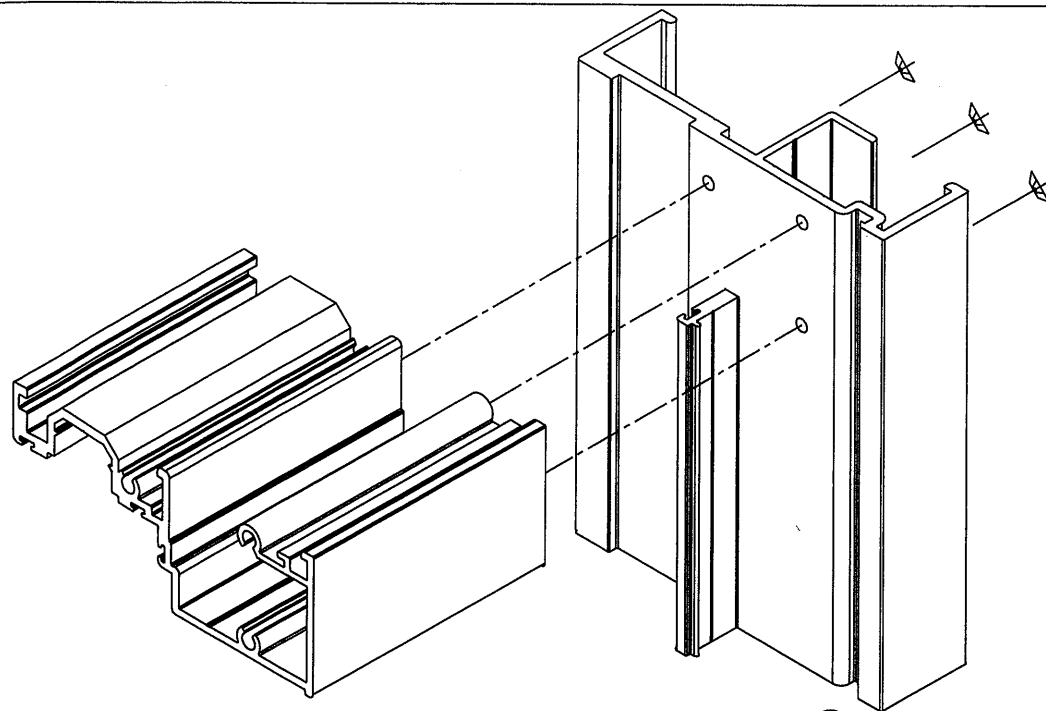
WINDOWS & DOORS

10100 northwest 25 street miami, florida 33172

product : Series 450 INSWING Doors & Sidelites

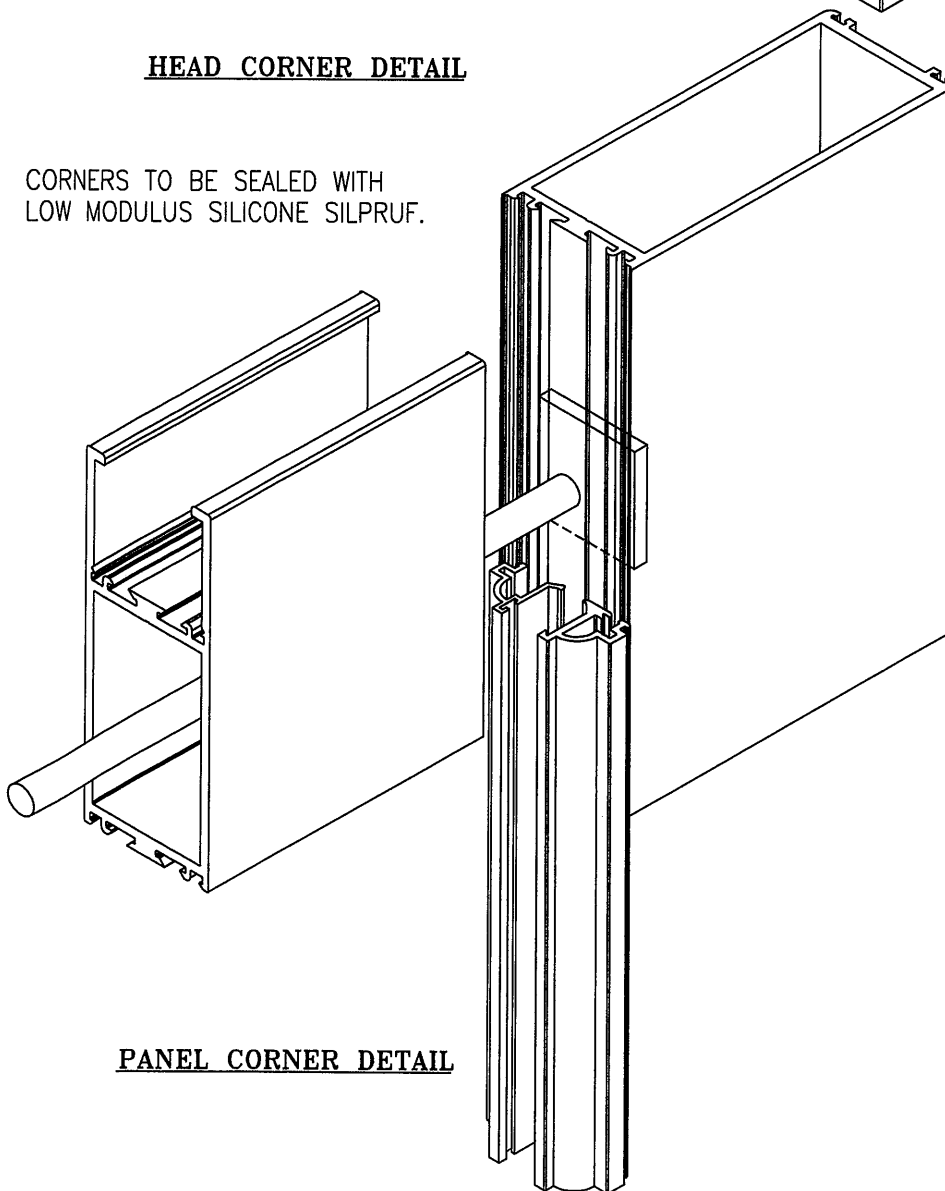
date : 05-22-12

sheet 7 of 7

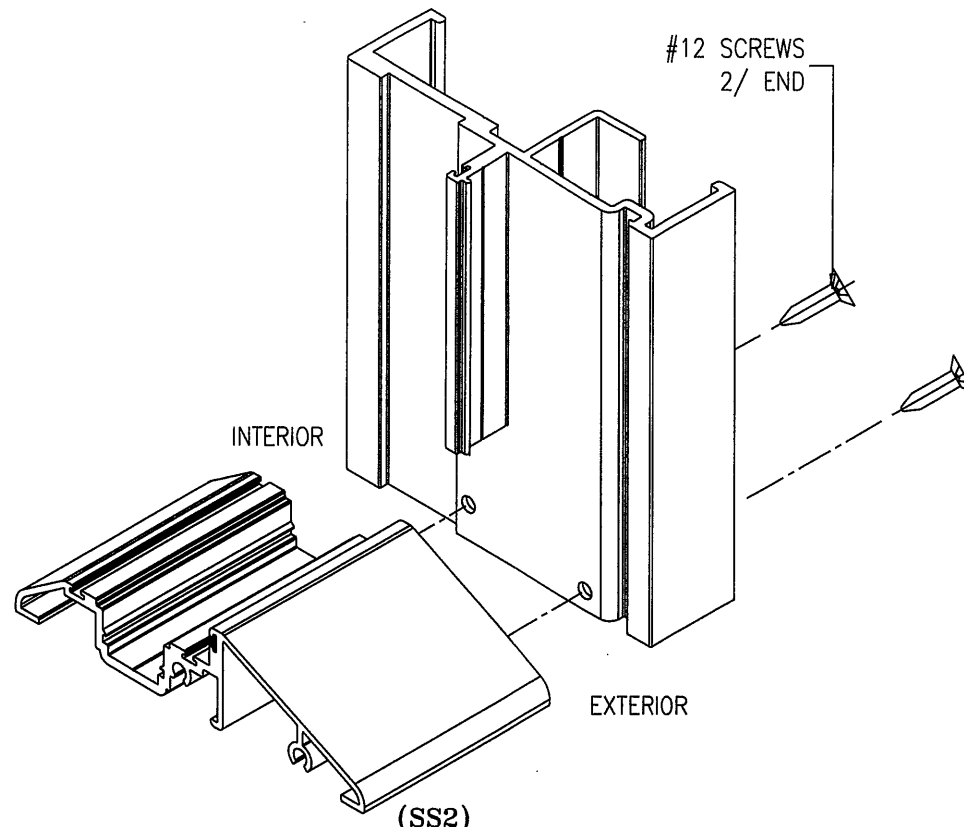


**HEAD CORNER DETAIL**

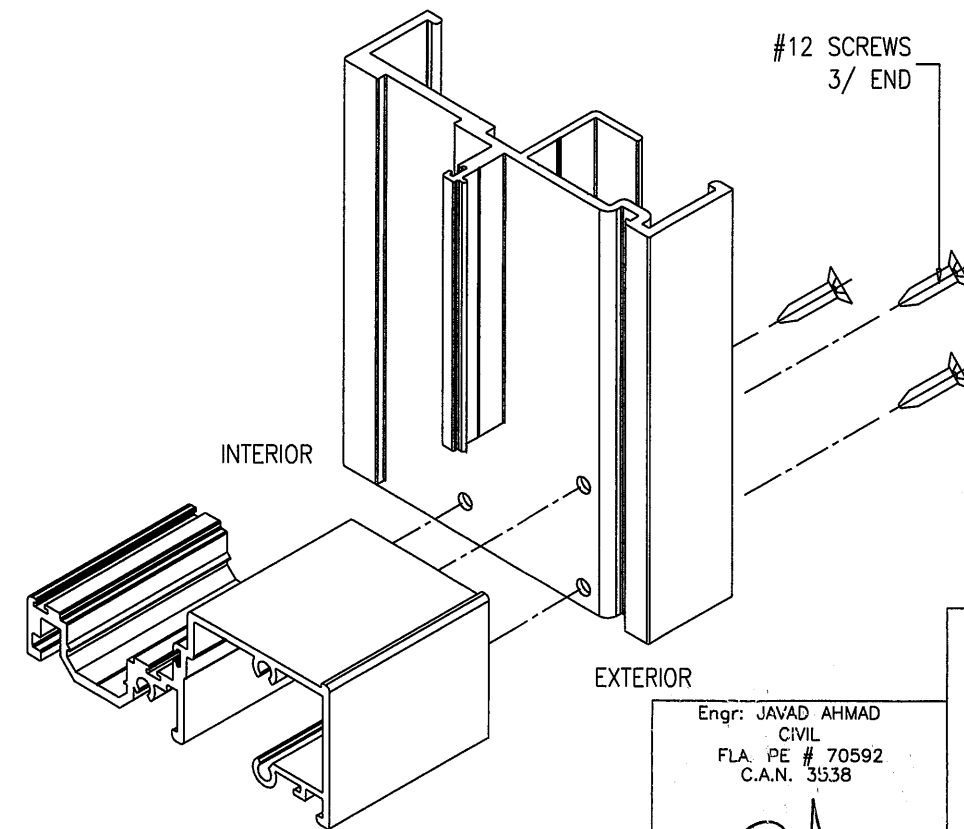
CORNERS TO BE SEALED WITH LOW MODULUS SILICONE SILPRUF.



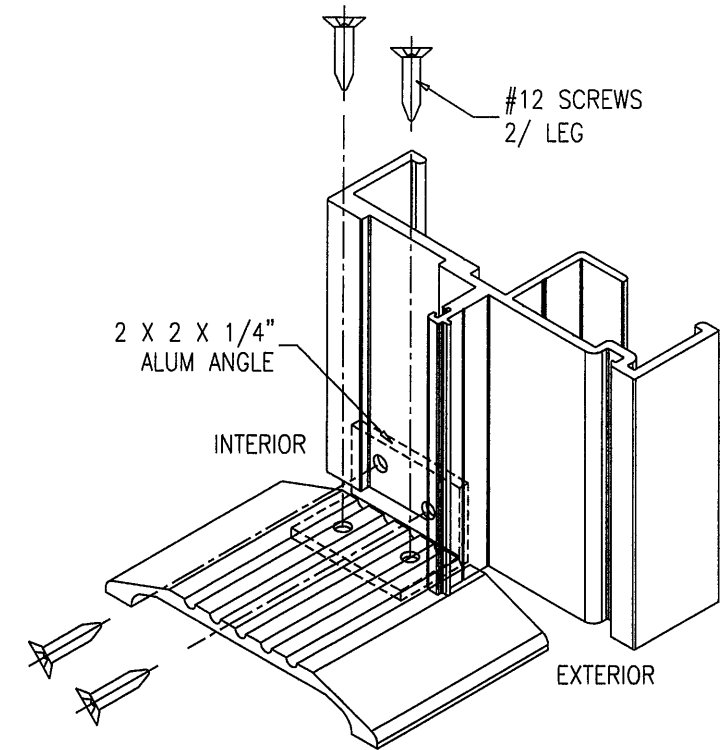
**PANEL CORNER DETAIL**



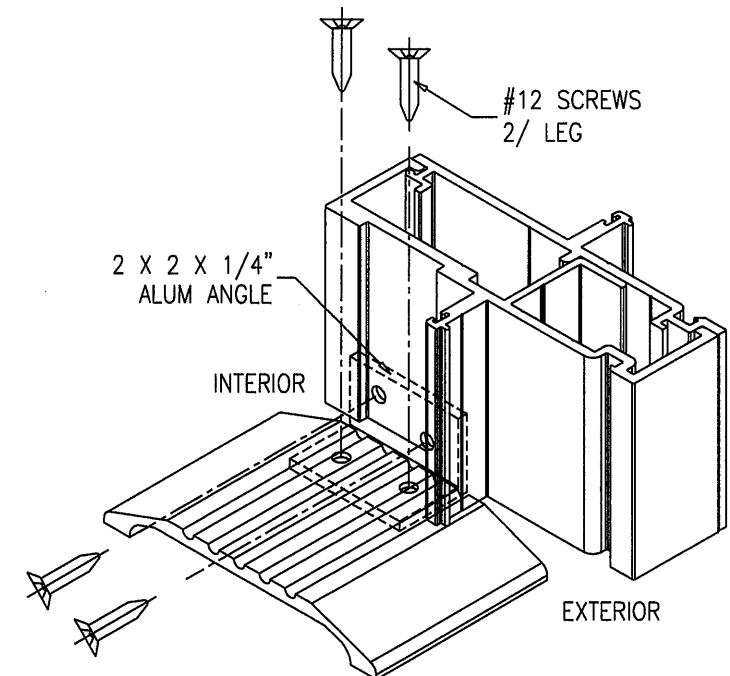
**RESIDENTIAL SADDLE SILL CORNER CONSTRUCTION**



**STD. SILL CORNER DETAIL**



**ADA SILL CORNER DETAIL**



**ADA SILL @ MULLION**

Engr: JAVAD AHMAD  
CIVIL  
FLA. PE # 70592  
C.A.N. 3538

JUN 29 2012

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Florida Building Code  
Date 10/25/12  
NOAH 12-0706-01  
Miami Code Product Control  
*[Signature]*

DWG. NO.: W12-23

PRODUCT CONTROL SECTION CHIEF, VICE PRESIDENT BUILDING CODE	
10100 Northwest 25 street miami, florida 33172	
product : Series 450 INSWING Doors & Sidelites	
date : 05-22-12	sheet 7.1 of 7